



FULL RANGE - MULTI CHANNEL SPEAKER SYSTEM

KL-7080

KL-5080

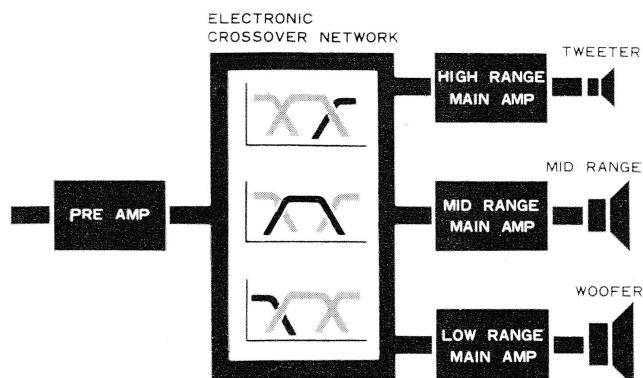
KL-4080

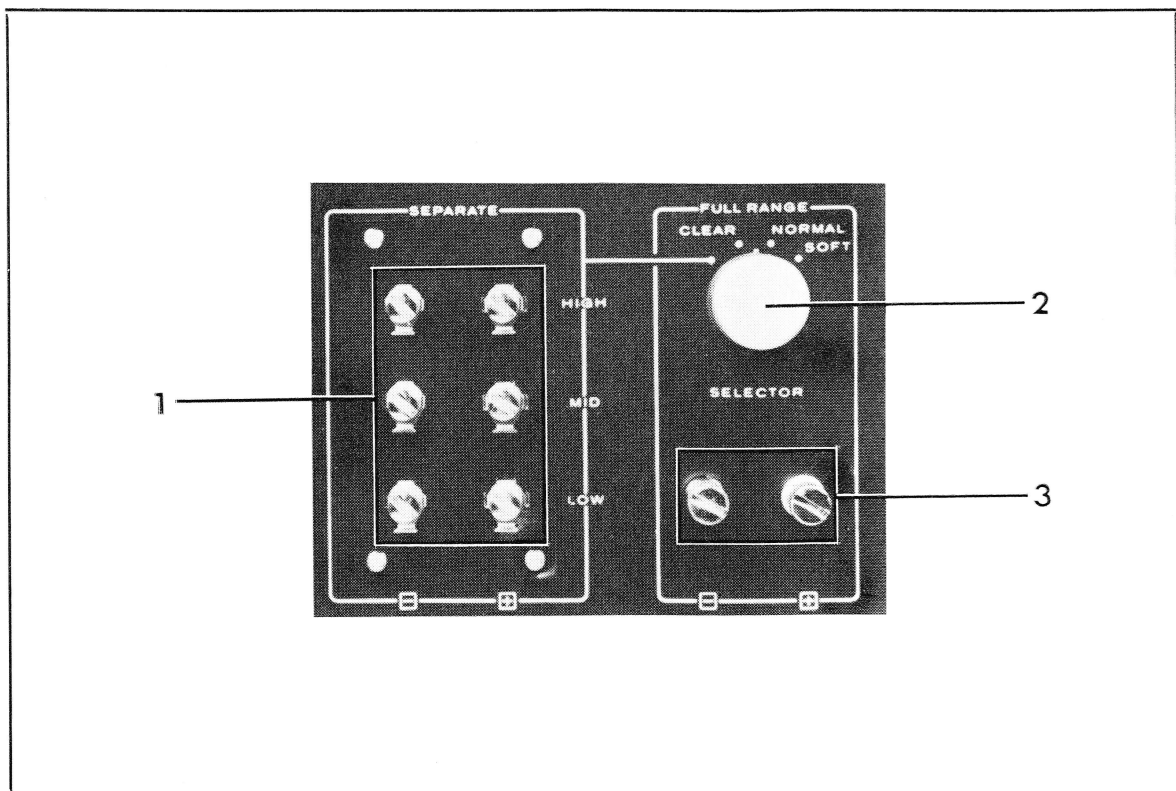
OPERATING INSTRUCTIONS

MULTI-CHANNEL SYSTEM

The multi-channel amplifier is an epoch-making sound reproduction system. An electronic crossover replaces the conventional LC network. Three separate main amplifiers are used for each stereo side, left and right, instead of a single amplifier in the conventional full-range system. In short, six main amps instead of two are employed in a multi-channel amplifier system to produce the ultimate in clear, truly distortion-free stereo sound.

Kenwood now offers a Full-Range—Multi-channel Speaker system in three models, the KL-7080, 5080 and 4080. They are all compatible with any conventional stereo system, as well as the latest multi-channel amplifier system. What's more, they're capable of reproducing spectacular sound. These are speaker systems that defy obsolescence, and which you'll treasure for many years to come because of their high excellence and performance.





CONNECTING TERMINALS AND SELECTOR SWITCH

1. SEPARATE input terminals

These six input terminals are used for making connections to the three main amplifier outputs of either the left or right side of a multi-channel amplifier system. By connecting another identical speaker system to the main amplifiers of the other side, multi-channel stereo sound can be enjoyed.

LOW—Connect the output of the Low-range amplifier to these two terminals.

MID—Connect the output of the Mid-range amplifier to these two terminals.

HIGH—Connect the output of the High-range amplifier to these two terminals.

It is important to observe the following when making connections to the three main amplifiers.

- A. For systems with a crossover slope of 6dB/OCT or 18dB/OCT, be sure to observe polarity in connecting all three amplifiers to their respective speaker terminals. Connect plus to plus and minus to minus in such a case.
- B. If the crossover slope is 12dB/OCT, best sound is obtained when plus is connected to plus and minus to minus for the high and

low-range amplifiers and their respective speaker terminals. As for the mid-range amplifier and its speaker terminals, reverse the polarity by connecting plus to minus and minus to plus. This, it must be emphasized, applies only under ideal room acoustic conditions. Otherwise normal polarity connections may produce better results. To test your own acoustic conditions, experiment by observing proper polarity connections for all three amplifiers, and settle on the mid-range connection which results in the best sound.

2. SELECTOR switch

This is a 4-point switch which connects these speakers to the multichannel amplifier system when set at SEPARATE position, or to a conventional, full-range amplifier or receiver at CLEAR, NORMAL and SOFT positions. In the latter three positions, the amplifier output is fed to a built-in, 3-way, LC crossover network, and sound can be adjusted to suit your preference as follows:

At CLEAR position—slight emphasis of highs.

At NORMAL position—ideal, flat, hi-fi response.

At SOFT position—slight attenuation of mid-range and highs.

3. FULL-RANGE input terminals

These two input terminals are used for making connections to either the left or right channel of any conventional, full-range stereo amplifier or receiver. By connecting another identical speaker system to the output of the other channel, full-range stereo sound can be enjoyed. Be sure to observe polarity when making connections. Always connect plus to plus and minus to minus for conventional full-range amps or receivers.

4. RECHECK SPEAKER CONNECTIONS

Be sure to recheck all speaker connections before operating this speaker system. Shorts or misconnections may damage the speakers.

CAUTION: If the Low-range amplifier output is misconnected to the HIGH or MID speaker connecting terminals, speaker damage will be almost certain!

MULTI-CHANNEL AMPLIFIER SYSTEM NOTES

The crossover frequencies used, as well as proper level adjustments of the various amplifiers are very important to get best results in multi-channel stereo operation. It is recommended that:

(1) Crossover frequencies of approximately 570-

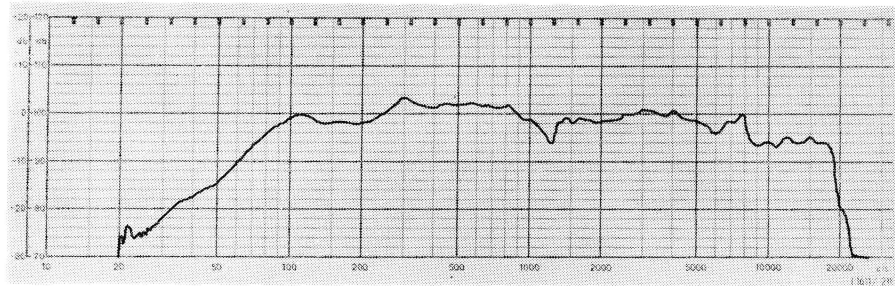
800Hz/12dB/OCT and 5,000Hz/12dB/OCT be used.

(2) The levels of the various amplifiers should be adjusted very carefully to obtain the best, most natural overall response for the entire audio range.

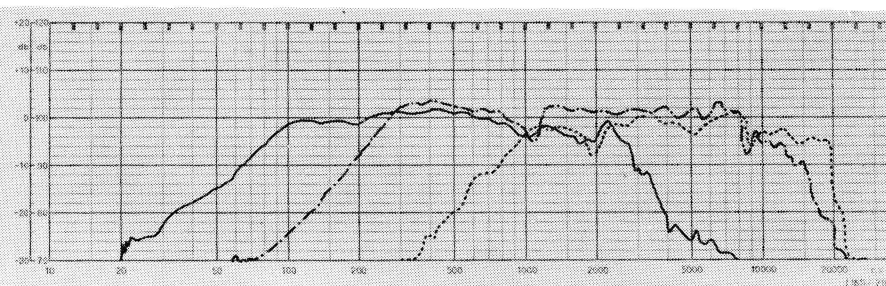
SPECIFICATIONS

MODEL	KL-7080	KL-5080	KL-4080
MOUNTED SPEAKERS	15" free-edge type woofer x 1 5" cone type mid-range x 1 Horn type high-mid-range x 1 Horn type tweeter x 2 1-1/4" metal cone type super tweeter x 1	12" free-edge type woofer x 1 6-1/2" cone type mid-range x 1 Horn type tweeter x 2 1-1/4" metal cone type super tweeter x 1	12" free-edge type woofer x 1 5-1/8" cone type mid-range x 1 2-3/4" cone type tweeter x 2
ENCLOSURE	Acoustic suspension type	Damped pipe duct bass reflex type	Damped pipe duct bass reflex type
MAXIMUM INPUT	80 watts	70 watts	50 watts
MULTI-CHANNEL			
LOW	80 watts	70 watts	50 watts
MID	30 watts	25 watts	20 watts
HIGH	30 watts	25 watts	20 watts
IMPEDANCE	8 ohms	8 ohms	8 ohms
SENSITIVITY	102 dB	102 dB	101 dB
FREQUENCY RESPONSE	25 Hz to 22,000 Hz	30 Hz to 22,000 Hz	35 Hz to 20,000 Hz
CROSSOVER FREQUENCY	600 Hz, 2000 Hz, 5000 Hz, 10,000 Hz	600 Hz, 5000 Hz, 10000 Hz	800 Hz, 5,000 Hz
CROSSOVER NETWORK	12 dB/oct	12 dB/oct	12 dB/oct
SPECIAL FEATURES	Builtin 3 step tone selector Multi-channel amplifier system connection terminals.	Builtin 3 step tone selector Multi-channel amplifier system connection terminals.	Builtin 3 step tone selector Multi-channel amplifier system connection terminals.
MULTI-CHANNEL AMPLIFIER SYSTEM CROSSOVER FREQUENCY	570 Hz-800 Hz, 5,000 Hz	570 Hz-800 Hz, 5,000 Hz	570 Hz - 800 Hz, 5,000 Hz
DIMENSION	16-3/4"(W) x 25"(H) x 11"(D)	15"(W) x 25-1/2"(H) x 11-5/8"(D)	14-1/2"(W) x 24-1/2"(H) x 11-5/8"(D)

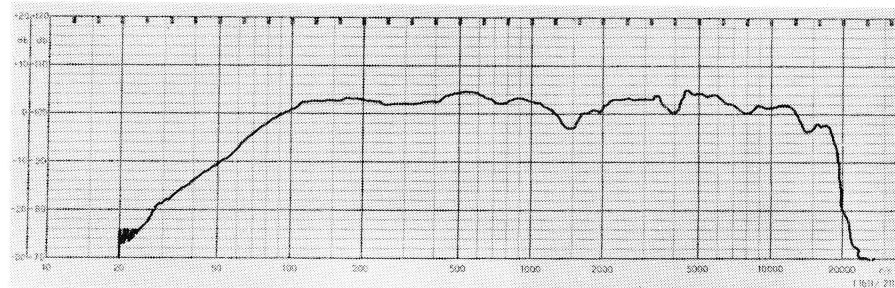
FREQUENCY RESPONSE CHARACTERISTICS



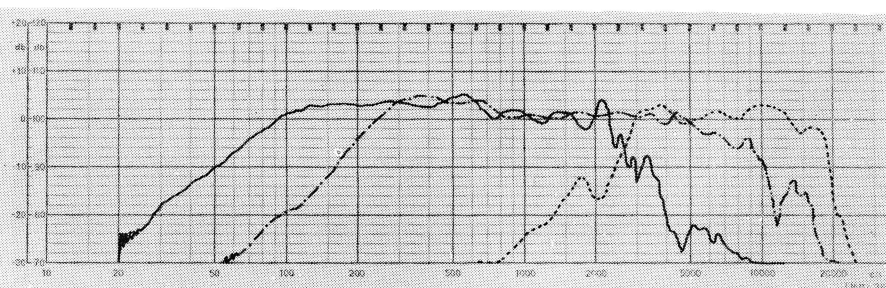
KL-4080 Full-Range Response Characteristics



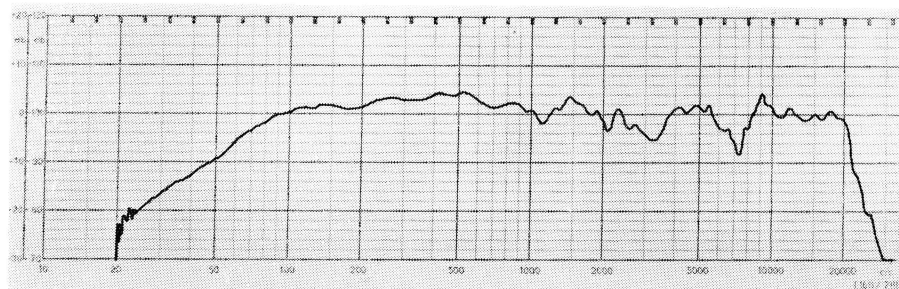
KL-4080 Multi-Channel Response Characteristics



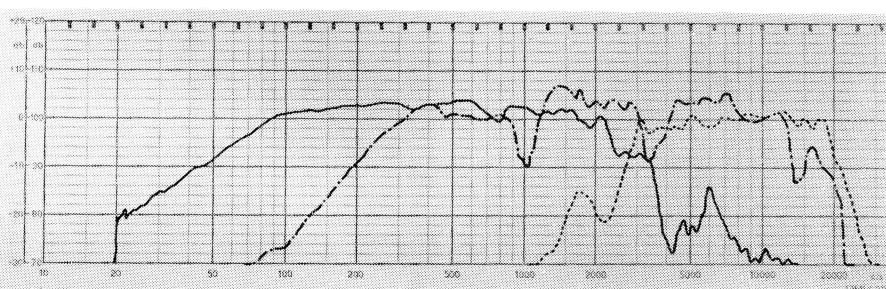
KL-5080 Full-Range Response Characteristics



KL-5080 Multi-Channel Response Characteristics



KL-7080 Full-Range Response Characteristics



KL-7080 Multi-Channel Response Characteristics